

Substitute for form 1449A&B/PTC

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

of

1

<i>Complete if Known</i>	
Application Number	10/615,416
Filing Date	July 7, 2003
First Named Inventor	Wishart, David Scott
Art Unit	1631
Examiner Name	Mahatan, Channing <i>Whaley</i>
Attorney Docket Number	080586-000100US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (# known)		
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/68A (07-05)

Substitute for form 1449A/PTO				Complete if Known	
				Application Number	10/615,418
				Filing Date	July 7, 2003
				First Named Inventor	Wishart, David Scott
				Art Unit	1631
				Examiner Name	MAHATAN, CHANNING WHALEY
Sheet	1	of	1	Attorney Docket Number	
Attorney Docket Number 080586-000100US					

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
/PW/	AA	US-5,707,875		01/1998	Tamura et al.
/PW/	AB	US-5,696,838		02-2004	Rafferty et al.
/PW/	AC	US-6,617,167		09-2003	Otvos et al.
	AD	US-			
	AE	US-			
	AF	US-			
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	AP	US-			
	AQ	US-			
	AR	US-			

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	AS				
	AT				
	AU				
	AV				
	AW				

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Substitute U.S. PATENT & TRADEMARK OFFICE				Complete if Known	
				<i>Application Number</i>	10/615,416
				<i>Filing Date</i>	July 7, 2003
				<i>First Named Inventor</i>	David Scott Wishart
				<i>Art Unit</i>	1644 1631
				<i>Examiner Name</i>	Unassigned
Sheet	1	of	1	<i>Attorney Docket Number</i>	080586-000100US

NON PATENT LITERATURE DOCUMENTS				
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/PW/	1	ILES "Clinical biofluids," <u>Encyclopedia of Analytical Science</u> ; Nuclear Magnet Spectroscopy - Applications: 3532-3544 (1995).		
/PW/	2	LINDON et al. "Biofluids Studied by NMR," In Encyclopedia of Spectroscopy and Spectrometry. Academic Press, pp. 98-116 (2000).		
/PW/	3	NICHOLSON et al. "1H NMR spectroscopy of biological fluids and the investigation of perturbed metabolic processes," <u>Magnetic Resonance in Food Science</u> , Belton, PS et al. (eds), Royal Society of Chemistry (pubs); 40/7:1245-1250 (1994).		
/PW/	4	WEVERS et al. "High-resolution 1H-NMR spectroscopy of blood plasma for metabolic studies," Clinical Chemistry 40/7:1245-1250 (1994).		

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Sheet 1 of 5

C mplete If Known

Application Number	10/615,416
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	1641 1631
Examiner Name	Unassigned

Attorney Docket Number 080586-000100US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/PW/	1	2003/0023388	01-30-2003	Aranibar et al.	
	2	2002/0145425	10-10-2002	Ebbels et al.	
	3	6,063,026	05-16-2000	Schauss et al.	
	4	6,035,248	03-07-2000	Wagner	
	5	5,926,773	07-20-1999	Wagner	
	6	5,887,588	03-30-1999	Usenius et al.	
	7	5,878,748	03-09-1999	Lemelson	
	8	5,822,219	10-13-1998	Chen et al.	
	9	5,726,570	03-10-1998	Spraul et al.	
	10	5,710,713	01-20-1998	Wright et al.	
	11	5,685,300	11-11-1997	Kuenstner	
	12	5,668,373	09-16-1997	Robbat Jr., et al.	
	13	5,629,210	05-13-1997	Hercules et al.	
	14	5,618,734	04-08-1997	Niwa et al.	
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	16	5,559,038	09-24-1996	Kolhouse et al.	
	17	5,517,856	05-21-1996	Hofmann et al.	
	18	5,470,750	11-28-1995	Bar-or	
	19	5,446,681	08-29-1995	Gethner	
	20	5,397,987	03-14-1995	Garritano	
	21	5,397,989	03-14-1995	Spraul et al.	
	22	5,338,887	08-16-1994	Lee	
	23	5,318,031	08-07-1994	Mountford et al.	
	24	5,313,408	05-17-1994	Kauppinen et al.	
	25	5,308,982	05-03-1994	Ivaldi et al.	
	26	5,283,036	02-01-1994	Hofmann et al.	
	27	5,261,405	11-16-1993	Fosse	
	28	5,258,712	11-02-1993	Hofmann et al.	
	29	5,247,175	09-21-1993	Schoen et al.	
	30	5,231,031	07-27-1993	Szwergold et al.	
	31	5,229,718	07-20-1993	Demoment et al.	
	32	5,220,302	08-15-1993	Nunnally et al.	
	33	5,218,529	08-08-1993	Meyer et al.	
	34	5,213,101	05-25-1993	Fosse	
	35	5,207,715	05-04-1993	Fosse	
	36	5,198,766	03-30-1993	Spraul et al.	
	37	5,146,166	09-08-1992	Bartuska	
	38	5,124,267	08-23-1992	Humpel et al.	
	39	5,072,732	12-17-1991	Rapoport et al.	
	40	5,055,389	10-08-1991	Bar-Or et al.	
	41	5,046,848	09-10-1991	Ray et al.	

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Substitute for form 1449A/PTO <i>PATENT & TRADEMARK OFFICE</i>		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/615,416
		Filing Date	July 7, 2003
		First Named Inventor	David Scott Wishart
		Art Unit	1641-1631
		Examiner Name	Unassigned <i>M. J. O'NEIL</i>
		Attorney Docket Number	080586-000100US
Sheet	2	of	5

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ⁴	Country Code ³ Kind Code ⁵ (#known)			
/PW/	54	EP0350546		01-17-1990	Advanced Techtronics	
	55	WO00/65366		11-02-2000	Lipomed, Inc.	
	56	WO00/51054		08-31-2000	Lipomed, Inc.	
	57	WO99/54751		10-28-1999	Sorland	
	58	WO98/39664		09-11-1998	Universidad Nacional et al.	
	59	WO97/47973		12-18-1997	The McLean Hospital Corp.	
	60	WO96/38083		12-05-1996	The John Hopkins University	
	61	WO94/20863		09-15-1994	Birkbeck College	
	62	WO93/03450		02-18-1993	North Carolina State Univ.	
	63	WO92/11807		07-23-1992	The Beth Israel Hospital	
	64	WO91/16852		11-14-1991	Chiscan AB	
	65	WO91/10128		07-11-1991	The Beth Israel Hospital	

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Substitute for form 1449B/PTO

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PATENT & TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

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Complete If Known

Application Number	10/615,416
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	1641 (631)
Examiner Name	Unassigned WNALE
Attorney Docket Number	080586-000100US

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/PW/	66	"NMR Lipoprotein Subclass Analysis: NMR LipoProfile Research Service", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, http://www.lipoprofile.com/lipomed/Products_Technology/R&D/R&D.htm [printed March 14, 2001]
	67	"Frequently Asked Questions", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, http://www.lipoprofile.com/lipomed/FAQS/faq.html [printed March 14, 2001]
	68	"Understanding the NMR LipoProfile", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610 (2001).
	69	"Varian Nuclear Magnetic Resonance Systems - Bayesian Software", Varian, Inc., 3120 Hansen Way, Palo Alto, CA 94304-1030, USA, http://www.varianinc.com/nmr/products/software/bayesianonepr.html [printed March 19, 2001]
	70	"About INCA", http://www.bruker.com/nmr/Products/INCA/index.html [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.
	71	"INCA Siting", http://www.bruker.com/nmr/Products/INCA/inca_siting.html [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.
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	76	"Who we are", http://www.acdlabs.com/company.html [printed March 19, 2001], Advanced Chemistry Development Inc., 60 Adelaide Street West, Suite 702, Toronto, Ontario, M5H 3V9, Canada.
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	78	"ACD/Combi NMR", http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/tech.html [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.
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	80	"Combi NMR Interface", http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/intn.html [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.
▼	81	"NMR Spectroscopy", http://www.acdlabs.com/products/spec_lab/nmr.html [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.

Examiner Signature	/Pablo Whaley/ (03/08/2007)	Date Considered
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DEC 26 2003
PATENT & TRADEMARK OFFICE

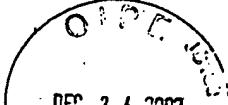
Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known
Sheet 4		of 5	Application Number	10/615,416
			Filing Date	July 7, 2003
			First Named Inventor	David Scott Wishart
			Art Unit	1641 1631
			Examiner Name	Unassigned
			Attorney Docket Number	080586-000100US

NON PATENT LITERATURE DOCUMENTS				
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/PW/	82	"ACD/CNMR: Overview", http://www.acdlabs.com/products/spec_lab/predict_nmr/cnmr [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
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	87	"ACD/NMR Manager, Version 5.0 for Windows, Application Note", 2001, Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
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	91	BUSZKO "A World Wide Web Interface to an NMR Spectrometer," available at < http://micro.ifas.ufl.edu > (1997, 2003).		
	92	EMSLEY et al. "Magnetic Resonance, Historical Perspective," <i>Encyclopedia of Spectroscopy and Spectrometry</i> , Academic Press: pp. 1232-1240 (2000).		
	93	FREEDMAN et al. "Relation of Lipoprotein Subclasses as Measured by Proton Nuclear Magnetic Resonance Spectroscopy [...]," Reprint from Arteriosclerosis, Thrombosis and Vascular Biology 18:1046-1053 (1998).		
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	95	HOLMES et al "Proton NMR analysis of plasma from renal failure patients: evaluation of sample preparation and spectral-editing methods," Journal of Pharmaceutical & Biomedical Analysis 8:955-958 (1990).		
	96	HOLMES et al,"Automatic Data Reduction and Pattern Recognition Methods for Analysis of 1H Nuclear Magnetic Resonance Spectra of Human Urine...," Analytical Biochemistry 220:284-298 (1994).		
▼	97	HORNAK "The Basics of NMR," available at < http://www.cis.rti.edu/htbooks/nmr > (1997, 2002).		

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 REC. 7.6.2003 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/615,416
				Filing Date	July 7, 2003
				First Named Inventor	David Scott Wishart
				Art Unit	1641 1631
				Examiner Name	Unassigned
				Attorney Docket Number	080586-000100US
Sheet 5		of 5			

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
/PW/	98	LINDON et al. "Biofluids Studied by NMR," In <i>Encyclopedia of Spectroscopy and Spectrometry</i> . Academic Press, pp. 98-118 (2002).		T ²
	99	LINDON et al. "Multicentre Assessment of Small Molecule Quantitation in Human Blood Plasma Using ¹ H NMR Spectroscopy," <i>Journal of Magnetic Resonance Analysis</i> , England, pp. 66-74 (1996).		
	100	LINDON et al. "NMR Spectroscopy of Biofluids," <i>Annual Reports on NMR Spectroscopy</i> , Academic Press, ISBN 012505338X, 38:1-88 (1999).		
	101	NICHOLSON et al. "750 MHz ¹ H and ¹ H- ¹³ C NMR Spectroscopy of Human Blood Plasma," <i>Analytical Chemistry</i> , 67:793-811 (1995).		
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	104	PRESS et al. "Parabolic Interpolation and Brent's Method in One Dimension," <i>Numerical Recipes in C - The Art of Scientific Computing</i> , Second edition, Cambridge University Press, pp. 402-405, USA (1992).		
	105	ROBERTSON et al. "Metabonomics: Evaluation of Nuclear Magnetic Resonance (NMR) and Pattern Recognition Technology for [...] Toxicants," <i>Toxicological Sciences</i> 57:326-337 (2000).		
	106	SMITH et al. "Nuclear Magnetic Resonance Spectroscopy," <i>Analytical Chemistry</i> , Vol. 34:509R-518R (1995).		
	107	SPRAUL et al. "Flow Injection Proton [NMR] Spectroscopy Combined With Pattern Recognition Methods [...]," <i>Analytical Communications</i> , Royal Society of Chemistry (UK) 34:1-3 (1997).		
	108	SYKES et al. "Checking pH without an Electrode", <i>The NMR Newsletter</i> , 966 Elsinore Court Palo Alto, CA, 94303, 30 June 1998 (received 7/3/98), 479-11 and 479-12 (1998).		
	109	WILLIAMS et al. "The ABC of Metabonomics: Automated Baseline Correction," March 11- 18, 2001, Orlando, Florida, USA, 42nd ENC, ACD Users Meeting, pp. 1-8 (2001).		
▼	110	WISHART et al. "Magnetic Resonance Diagnostics: A New Technology for High-Throughput Clinical Diagnostics," <i>Clin Chem</i> 47:1918-1921 (2001).		

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PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/615,416
Page	1	of	1	Filing Date	July 7, 2003
				First Named Inventor	David Scott Wishart
				Art Unit	Unassigned 163
				Examiner Name	Unassigned WNALE
				Attorney Docket Number	080586-000100US

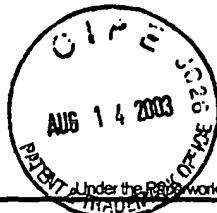
NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
/PW/	1	PAN "Correlation Of Lactate and Ph In Human Skeletal Muscle After Exercise By 1H NMR" Magnetic Resonance In Medicine 20:57-65 (1991).		T ²

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>		Complete If Known	
Page	1	of	2
		Application Number 10/615,416 Filing Date July 7, 2003 First Named Inventor David Scott Wishart Art Unit Unassigned 163 Examiner Name Unassigned WWA/WS Attorney Docket Number 080586-000100US	

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
/PW/	1	US-5,343,389		08-30-1994	Otvos
/PW/	2	US-4,833,844		06-12-1990	Otvos

FOREIGN PATENT DOCUMENTS					
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2

of

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Complete If Known

Application Number	10/615,416
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	Unassigned (67)
Examiner Name	Unassigned WHALEY
Attorney Docket Number	080586-000100US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
/PW/	3	EL-DEREDY "Pattern Recognition Approaches in Biomedical and Clinical Magnetic Resonance Spectroscopy: A Review," NMR In Biomedicine 10: 99-124 n(1997).		
/PW/	4	KURHANEWICZ "Citrate Alterations in Primary and Metastatic Human Prostatic Adenocarcinomas: ¹ H Magnetic Resonance Spectroscopy and Biochemical Study," Magnetic Resonance in Medicine 29: 149-157 (1993).		
/PW/	5	LEVY et al."Data Processing" Encyclopedia Of Nuclear Magnetic Resonance, D.M.Grant et al. (eds.), John Wiley & Sons, vol. 3, pages 1548-1558 (1996).		
/PW/	6	SPRAUL et al.: "Automatic Reduction of NMR Spectroscopic Data for Statistical and Pattern Recognition Classification of Samples," Journal Of Pharmaceutical And Biomedical Analysis 12: 1215-1225 (1994).		

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